

Message Text

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14

ACTION AEC-11

INFO OCT-01 EA-11 ADP-00 SCI-06 COA-02 ACDA-19 CIAE-00

INR-10 IO-13 L-03 NSAE-00 NSC-10 RSC-01 SCEM-02 EPA-04

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R 230720Z AUG 73

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TO SECSTATE WASHDC 6201

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DEPT PASS AEC FOR FRIEDMAN

E.O. 11652: N/A

TAGS: TECH JA

SUBJECT: NUCLEAR POWER PLANT BENCHMARKS IN JAPAN

REF: A. AEC 0739, FOSTER TO HELFRICH, 8/17/73

B. AEC 0879, FRIEDMAN TO HELFRICH, 8/21/73

SUMMARY: INFO ON LICENSING AND CONSTRUCTION SCHEDULES FOR JAPANESE NUCLEAR POWER PLANTS IS PRESENTED. DIFFERENCES BETWEEN JAPANESE AND US EXPERIENCE IS PRESENTED AND POSSIBLE EXPLANATIONS FOR DIFFERENCES SUGGESTED. END SUMMARY..

1. INFO REQUESTED REF A REPORTED BELOW IN FOLLOWING ORDER:

PLANT; NSSS CONTR. AWARD; CONST. PERMIT APPLIED; CONSTR. PERMIT ISSUED; CONSTR. START; INIT. CRIT.; COMM. OPER. N.B. DATE OPERATING PERMIT ISSUED NOT INCLUDED BECAUSE IT IS SAME DATE AS THAT FOR COMM. OPER.

TOKAI-1, DEC 59, MAR 59, DEC 59, FEB 60, MAY 65, JUNE 66

TSURUGA, MAY 66, OCT 65, APR 66, APR 66, OCT 69, MAR 70

MIHAMA-1, MAY 66, JUN 66, DEC 66, DEC 66, JUL 70, NOV 70

FUKUSHIMA-1, DEC 66 JUL 66, DEC 66, DEC 66, JUL 70, MAR 71

MIHAMA-2, UNAVAILABLE, NOV 67, MAY 68, MAY 68, APR 72, JUL 72

FUKUSHIMA-2, MAR 68, SEPT 66, MAAR68, MAR 68, NOV 72, SEPT 73

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SHIMANE-1, UNAVAILABLE, MAY 69, NOV 69, FEB 70, JUN 73, JAN 75

TAKAHAMA-1, JUL 70, MAY 69, DEC 69, NOV 73, AUG 74
HAMAOKA-1, UNAVAILABLE, MAY 70, DEC 70, MAR 71, MAY 74, NOV 74
FUKUSHIMA-3, UNAVAILABLE, JUL 69, JAN 70, MAR 70, APR 74, DEC 74
TAKAHAMA-2, UNAVAILABLE, MAY 70, NOV 70, NOV 70, NOV 74, JUL 75
GENKAI-1, AUG 70, MAY 70, DEC 70, DEC 70, NOV 74, JUL 75
FUKUSHIMA-5, UNAVAILABLE, FEB 71, SEP 71, DEC 71 APR 74, DEC 75
MIHAMAS-3, UNAVAILABLE, JUL 71, MAR 72, MAR 72, FEB 76, AUG 76
FUKUSHIMA-4, UNAVAILABLE, AUG 71, JAN 72, MAR 72, FEB 76, AUG 76
FUKUSHIMA-6, DEC 72, DEC 72, DEC 72, APR 76, OCT 76

2. REF B. AVERAGE TIME FROM CONSTR. START TO COMM. OPER. IN JAPAN IS 54 MONTHS. AVERAGE TIME FROM APPLICATION FOR CONSTR. PERMIT TO COMM. OPER. (ALL STEPS) 62 MONTHS. GREATEST DIFFERENCES BETWEEN JAPAN AND US APPEAR IN TIME REQUIRED FOR ISSUANCE OF CONSTRUCTION PERMIT--8 MONTHS FOR JAPAN AND 24 MONTHS FOR US--AND TIME REQUIRED FOR CONSTRUCTION--55 MONTHS IN JAPAN AND 65 MONTHS IN US. LICENSING TIME MAY BE ON INCREASE IN JAPAN AS PUBLIC HEARINGS INSTITUTE AS PART OF LICENSING PROCEDURE. FIRST PUBLIC HEARING ON REACTOR LICENSE SCHEDULED SEPT 73.

3. DIFFERENCES IN TIME REQUIRED OBTAIN CONSTRUCTION PERMIT NOT AS GREAT AS IMPLIED BY ABOVE NUMBERS SINCE NORMALLY FISHERY ASSOCIATION AND LOCAL GOVERNMENT APPROVALS MUST BE OBTAINED BEFORE UTILITY CAN APPLY FOR CONSTRUCTION PERMIT. MAJOR OPPOSITION TO SITING HAS CENTERED ON CONCERN ABOUT POSSIBLE DIS-

RUPTION OF LOCAL ENVIRONMENT, ESPECIALLY FISHING GROUNDS. THIS OPPOSITION APPLIES TO BOTH FOSSIL AND NUCLEAR PLANTS. OF TOTAL 12,000 MWE OF GENERATING CAPACITY PLANNED FOR CONSTRUCTION START IN JFX 72 ONLY 3800 MWE WAS ACTUALLY STARTED. DEFERALS WERE DUE ALMOST SOLELY TO SITING DIFFICULTIES.

4. REASONS FOR DIFFERENCES IN CONSTRUCTION TIME DIFFICULT TO POSITIVELY IDENTIFY; HOWEVER, FOLLOWING FACTORS ARE GENERALLY

CONSIDERED TO BE INVOLVED: A. HIGHER PRODUCTIVITY IN FIELD CONSTRUCTION LABOR; B. FEWER JURISDICTIONAL LABOR DISPUTES; C. MAJOR CONTRACTORS PROVIDE HIGHER PERCENTAGE OF COMPONENTS WITH RESULT THAT THERE ARE LESS COORDINATION PROBLEMS AND FEWER DELAYS CAUSED BY FAILURE TO PERFORM ON PART OF SMALL EQUIPMENT
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SUPPLIERS; AND D. JAPANESE PLANTS ARE GENERALLY FOLLOWING BEHIND SIMILAR PLANTS IN US SO THEY CAN BENEFIT FROM EXPERIENCE ON THOSE PLANTS.
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